

U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.		Serial No.	
					M-9152-1D US		Unassigned	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s)		10/07/01	
(Use several sheets if necessary)					Michael R. Krames et al.			
					Filing Date		Group	
					Unassigned 2-7-02		Unassigned	

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02/07/02

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
K	AA	RE 36,747	06/27/00	Manabe et al.	257	431	
	AB	3,813,587	5/1974	Umeda et al.			
	AC	4,238,707	12/9/80	Malissin et al.	315	175	
	AD	4,329,625	5/11/82	Nishizawa et al.	315	158	
	AE	4,423,478	12/27/83	Bullock et al.	363	89	
	AF	4,983,884	1/8/91	Wychulis	315	151	
	AG	5,362,977	11/08/94	Hunt et al.	257	98	
	AH	5,408,120	04/18/95	Manabe et al.	257	431	
	AI	5,461,425	10/24/95	Fowler et al.	348	294	
	AJ	5,557,115	9/17/96	Shakuda	257	81	
K	AK	5,563,422	10/08/96	Nakamura et al.	257	13	

Foreign Patent Documents							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
M	AL	0 529 1621	05-Nov-93	Japan			X	
	AM	0 550 963 A1	14-Jul-93	EPO			X	
	AN	0 772 249 A2	7-May-97	EPO			X	
	AO	0 772 249 A3	4-Nov-98	EPO			X	
	AP	0 921 577 A1	09-Jun-99	EPO			X	
M	AQ	0 926 744 A2	30 Jun. 1999	EPO			X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
K	AR	"Barrier Layer in the metallisation of Semiconductor Diode Lasers" Research Disclosure, Kenneth Mason Publications, Hampshire, 1994, no. 360, page 179, XP000446545, ISSN: 0374-4353
	AS	Evans et al., "Edge-Emitting Quantum Well Heterostructure Laser Diodes with Auxiliary Native-Oxide Vertical Cavity Confinement," <u>Applied Physics Letters</u> , 67(1995) 20 November, No. 21, pp. 3168-3170.
	AT	Han, H. et al.: "Electroplated Solder Joints for Optoelectronic Applications" <u>Electronic Components &amp; Technology</u> , 1996, pages 963-966, XP000646645

Examiner	<i>[Signature]</i>	Date Considered	3-10-03
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s)		10/07/01, 507	
(Use several sheets if necessary)					Michael R. Krames et al.			
					Filing Date		Group	
					<del>Unassigned</del> 2-7-02		<del>Unassigned</del> 2-8-02	

  

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
V	AU	5,862,167	01/19/99	Sassa et al.	372	45	
	AV	5,886,401	3/23/99	Liu	257	678	
	AW	5,914,501	6/22/99	Antle et al.	257	99	
	AX	6,016,038	1/18/00	Mueller et al.	315	291	
	AY	6,091,085	18 Jul. 2000	Lester	257	98	
H	AZ	6,121,127	09/19/00	Shibata et al.	438	604	
	BA	6,150,774	11/21/00	Mueller et al.	315	291	

  

Foreign Patent Documents							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
H	BB	0 926 744 A3	31-May-00	EPO (Abstract)			X	
	BC	1 020 935 A2	19-Jul-00	Europe			X	
	BD	1 030 377 A2	23-Aug-00	EPO			X	
	BE	11 150 297	2-Jun-99	Japan			X	
	BF	11 191 641	13-Jul-99	Japan			X	
	BG	11 274568	8-Oct-99	Japan (Abstract)			X	

  

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
H	BH	M. R. Krames et al., "High-power truncated-inverted-pyramid ( $\text{Al}_x\text{Ga}_{1-x}$ ) <sub>0.5</sub> In <sub>0.5</sub> P/GaP light-emitting diodes exhibiting >50% external quantum efficiency," Applied Physics Letter, Volume 75, Number 16, 18 October 1999.
	BI	Roger Maxwell, "LED or Lamp Flasher: Minimum parts counting Designed for 3V battery operation", <a href="http://www.ee.washington.edu/circuit_archive/circuits">http://www.ee.washington.edu/circuit_archive/circuits</a>
	BJ	Mensz, P.M. et al.: " $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{Al}_y\text{Ga}_{1-y}\text{N}$ violet light emitting diodes with reflective p-contacts for high single sided light extraction" Electronics Letters, GB, IEE Stevenage, vol. 33, no. 24, 20 November 1997, pages 2066-2068, XP000734311, ISSN: 0013-5194
	BK	G. J. Sun and K. H. Chae, "Properties of 2,3-butanedione and 1-phenyl-1,2-propanedione As New Photosensitizers For Visible Light Cured Dental Resin Composites", Polymer, Vol. 41, pp. 6205-6212 (2000).
	BL	Tan, Q. et al.: "Soldering technology for Optoelectronic Packaging" Electronic Components & Technology, 1996, pages 26-36, XP000646646

  

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicant(s)		10/07/509	
(Use several sheets if necessary)				Michael R. Krames et al.			
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				Unassigned 2-7-02		Unassigned 2822	

  

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/	BM	/	/	/	/	/	/
/	BN	/	/	/	/	/	/
/	BO	/	/	/	/	/	/
/	BP	/	/	/	/	/	/
/	BQ	/	/	/	/	/	/
/	BR	/	/	/	/	/	/
/	BS	/	/	/	/	/	/
/	BT	/	/	/	/	/	/
/	BU	/	/	/	/	/	/
/	BV	/	/	/	/	/	/
/	BW	/	/	/	/	/	/

  

Foreign Patent Documents							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
/	BX	19 921 987	18 Nov. 1999	Germany (Abstract)	/	/	X	/
/	BY	2 343 994	24 May 2000	United Kingdom	/	/	X	/
/	BZ	7 235 624	5-Sep-95	Japan (Abstract)	/	/	X	/
/	CA	/	/	/	/	/	/	/
/	CB	/	/	/	/	/	/	/

  

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
/	CC	/
/	CD	/
/	CE	/

  

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					M-9152-3D US		10/071,507	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s)			
(Use several sheets if necessary)					Krames, et al.			
					Filing Date		Group	
					February 7, 2002		unknown 2822	
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
MA	AA	5,410,159	4/25/95	Sugawara et al	257	13		
	AB	5,744,829	4/28/98	Murasato et al	257	94		
	AC	5,998,232	12/7/99	Maruska	438	46		
	AD	6,133,589	10/17/00	Krames et al	257	103		
	AE	6,081,540	6/27/00	Nakatsu	372	45		
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL	2301934	12/18/96	United Kingdom			x	
	AM	0702414 A2	3/20/96	Europe			x	
	AN	19756856A1	12/19/97	Germany				x
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AQ	Sugawara, H. et al, "Emission Properties of InGaAlP, Visible Light-Emitting Diodes Employing a Multiquantum-Well Active Layer", Jpn. J. Appl. Phys., Vol. 33 (1994) Pt. 1, No. 10, October 1994, pp. 5784-5787						
	AR	Chang, S. J., et al, "AlGaInP multiquantum well light-emitting diodes", IEE Proc.-Optoelectron, Vol. 144, No. 6, December 1997, pp. 405-409						
	AS	Benisty, H., "Impact of Planar Microcavity Effects on Light Extraction-Part I: Basic Concepts and Analytical Trends", IEE Journal of Quantum Electronics, Vol. 34, No. 9, September 1998, pp. 1612-1631						
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(Use several sheets if necessary)					Krames, et al.			
					Filing Date		Group	
					February 7, 2002		Unknown <i>282</i>	

  

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	AA	6,169,294 B1	Jan. 2, 2001	Biing-Jye, et al.	257	79	
/	AB	/	/	/	/	/	/
/	AC	/	/	/	/	/	/
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/	AE	/	/	/	/	/	/
/	AF	/	/	/	/	/	/
/	AG	/	/	/	/	/	/
/	AH	/	/	/	/	/	/
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		Document	Date	Country	Class	Subclass	Yes	No
/	AL	/	/	/	/	/	/	/
/	AM	/	/	/	/	/	/	/
/	AN	/	/	/	/	/	/	/
/	AO	/	/	/	/	/	/	/
/	AP	/	/	/	/	/	/	/

  

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